


Electronic Filing System (EFS) Data
Electronic Patent Application Submission
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EFS ID: 13956
Application ID: 09683831
Title of Invention: TWIN-CELL FLASH MEMORY
STRUCTURE AND METHOD
First Named Inventor: Louis Hsu
Domestic/Foreign Application: Domestic Application
Filing Date: null
Effective Receipt Date: 2002-02-21
Submission Type: Utility Patent Filing
Filing Type: new-utility
Confirmation Number: 0
Attorney Docket Number: BUR920010134
Digital Certificate Holder: cn=Mark F. Chadurjian, ou=Registered Attorneys, ou=Patent and
Trademark Office, ou=Department of Commerce, o=U.S.
Government, c=US
Certificate Message Digest: LPITZIBHZU7zvFmca4GOAA==

Total Fees Authorized: \$780.0
Payment Category: DA - Deposit Account
Deposit Account Number: 90456
Deposit Account Name: Mark F. Chadurjian

TRANSMITTAL FORM

JC474 U.S. PTO
09/683831
02/21/02

Electronic Version 1.0.3

Stylesheet Version: 1.0

Attorney Docket
Number:

BUR920010134

Submission Type: Utility
Patent Filing

TWIN-CELL FLASH MEMORY STRUCTURE AND METHOD

First Named Inventor: Louis Hsu

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Mr. Mark F. Chadurjian

Registration Number:

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Electronic Signature Mark: Mark F.
Chadurjian / s /

Date Signed: 20020221

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I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.

Attached Files:

declaration

bur920010134dec1.tif

declaration

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declaration

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| Year | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 | |

Comments:

Assignee: International Business Machines Corporation, Armonk, New York

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| 1971/72 | 1972/73 | 1973/74 | 1974/75 | 1975/76 | 1976/77 | 1977/78 | 1978/79 | 1979/80 | 1980/81 | 1981/82 | 1982/83 | 1983/84 | 1984/85 | 1985/86 | 1986/87 | 1987/88 | 1988/89 | 1989/90 | 1990/91 | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/96 | 1996/97 | 1997/98 | 1998/99 | 1999/00 | 2000/01 | 2001/02 | 2002/03 | 2003/04 | 2004/05 | 2005/06 | 2006/07 | 2007/08 | 2008/09 | 2009/10 | 2010/11 | 2011/12 | 2012/13 | 2013/14 | 2014/15 | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | 2020/21 | 2021/22 | 2022/23 | 2023/24 | 2024/25 | 2025/26 | 2026/27 | 2027/28 | 2028/29 | 2029/30 | 2030/31 | 2031/32 | 2032/33 | 2033/34 | 2034/35 | 2035/36 | 2036/37 | 2037/38 | 2038/39 | 2039/40 | 2040/41 | 2041/42 | 2042/43 | 2043/44 | 2044/45 | 2045/46 | 2046/47 | 2047/48 | 2048/49 | 2049/50 | 2050/51 | 2051/52 | 2052/53 | 2053/54 | 2054/55 | 2055/56 | 2056/57 | 2057/58 | 2058/59 | 2059/60 | 2060/61 | 2061/62 | 2062/63 | 2063/64 | 2064/65 | 2065/66 | 2066/67 | 2067/68 | 2068/69 | 2069/70 | 2070/71 | 2071/72 | 2072/73 | 2073/74 | 2074/75 | 2075/76 | 2076/77 | 2077/78 | 2078/79 | 2079/80 | 2080/81 | 2081/82 | 2082/83 | 2083/84 | 2084/85 | 2085/86 | 2086/87 | 2087/88 | 2088/89 | 2089/90 | 2090/91 | 2091/92 | 2092/93 | 2093/94 | 2094/95 | 2095/96 | 2096/97 | 2097/98 | 2098/99 | 2099/00 | 2100/01 | 2101/02 | 2102/03 | 2103/04 | 2104/05 | 2105/06 | 2106/07 | 2107/08 | 2108/09 | 2109/10 | 2110/11 | 2111/12 | 2112/13 | 2113/14 | 2114/15 | 2115/16 | 2116/17 | 2117/18 | 2118/19 | 2119/20 | 2120/21 | 2121/22 | 2122/23 | 2123/24 | 2124/25 | 2125/26 | 2126/27 | 2127/28 | 2128/29 | 2129/30 | 2130/31 | 2131/32 | 2132/33 | 2133/34 | 2134/35 | 2135/36 | 2136/37 | 2137/38 | 2138/39 | 2139/40 | 2140/41 | 2141/42 | 2142/43 | 2143/44 | 2144/45 | 2145/46 | 2146/47 | 2147/48 | 2148/49 | 2149/50 | 2150/51 | 2151/52 | 2152/53 | 2153/54 | 2154/55 | 2155/56 | 2156/57 | 2157/58 | 2158/59 | 2159/60 | 2160/61 | 2161/62 | 2162/63 | 2163/64 | 2164/65 | 2165/66 | 2166/67 | 2167/68 | 2168/69 | 2169/70 | 2170/71 | 2171/72 | 2172/73 | 2173/74 | 2174/75 | 2175/76 | 2176/77 | 2177/78 | 2178/79 | 2179/80 | 2180/81 | 2181/82 | 2182/83 | 2183/84 | 2184/85 | 2185/86 | 2186/87 | 2187/88 | 2188/89 | 2189/90 | 2190/91 | 2191/92 | 2192/93 | 2193/94 | 2194/95 | 2195/96 | 2196/97 | 2197/98 | 2198/99 | 2199/00 | 2200/01 | 2201/02 | 2202/03 | 2203/04 | 2204/05 | 2205/06 | 2206/07 | 2207/08 | 2208/09 | 2209/10 | 2210/11 | 2211/12 | 2212/13 | 2213/14 | 2214/15 | 2215/16 | 2216/17 | 2217/18 | 2218/19 | 2219/20 | 2220/21 | 2221/22 | 2222/23 | 2223/24 | 2224/25 | 2225/26 | 2226/27 | 2227/28 | 2228/29 | 2229/30 | 2230/31 | 2231/32 | 2232/33 | 2233/34 | 2234/35 | 2235/36 | 2236/37 | 2237/38 | 2238/39 | 2239/40 | 2240/41 | 2241/42 | 2242/43 | 2243/44 | 2244/45 | 2245/46 | 2246/47 | 2247/48 | 2248/49 | 2249/50 | 2250/51 | 2251/52 | 2252/53 | 2253/54 | 2254/55 | 2255/56 | 2256/57 | 2257/58 | 2258/59 | 2259/60 | 2260/61 | 2261/62 | 2262/63 | 2263/64 | 2264/65 | 2265/66 | 2266/67 | 2267/68 | 2268/69 | 2269/70 | 2270/71 | 2271/72 | 2272/73 | 2273/74 | 2274/75 | 2275/76 | 2276/77 | 2277/78 | 2278/79 | 2279/80 | 2280/81 | 2281/82 | 2282/83 | 2283/84 | 2284/85 | 2285/86 | 2286/87 | 2287/88 | 2288/89 | 2289/90 | 2290/91 | 2291/92 | 2292/93 | 2293/94 | 2294/95 | 2295/96 | 2296/97 | 2297/98 | 2298/99 | 2299/00 | 2300/01 | 2301/02 | 2302/03 | 2303/04 | 2304/05 | 2305/06 | 2306/07 | 2307/08 | 2308/09 | 2309/10 | 2310/11 | 2311/ |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|

Declaration and Power of Attorney for Patent Application

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: TWIN-CELL FLASH MEMORY STRUCTURE AND METHOD

the specification of which (check one)

☒ is attached hereto.
was filed on _____ as Application Serial No. _____ and was amended on _____

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s):

| Number | Country | Day/Month/Year | Priority Claimed |
|--------|---------|----------------|------------------|
|--------|---------|----------------|------------------|

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information material to the patentability of this application as defined in Title 37, Code of Federal Regulations, §1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Prior U.S. Applications:

| Serial No. | Filing Date | Status |
|------------|-------------|--------|
|------------|-------------|--------|

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

As a named inventor, I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: Mark F. Chadurjian (Reg. No. 30,739); Richard A. Henkler, Reg. No. 39,220; Richard M. Kotuliek (Reg. No. 27,712); William D. Sabo (Reg. No. 27,465); Robert A. Walsh (Reg. No. 26,516); Howard J. Waller (Reg. No. 24,832); Stanley B. Green, Reg. No. 24,351; Christopher A. Hughes (Reg. No. 28,914); Edward A. Pennington (Reg. No. 32,588); John E. Hoel (Reg. No. 28,279); Joseph C. Redmond, Jr. (Reg. No. 19,753); Richard L. Catania, (Reg. No. 32,608); Leopold Presser, (Reg. No. 19,827); Frank S. DiGiglio (Reg. No. 31,346); Steven Fischman (Reg. No. 34,594); Kenneth L. King (Reg. No. 24,223); William C. Roch (Reg. No. 24,972); Edward W. Grob (Reg. No. 33,705) and Steven Fischman (Reg. No. 34,594).

Send all correspondence to:

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400 Garden City Plaza
Garden City, NY 11530

Direct Telephone Calls to: Steven Fischman, Esq. (516) 742-4343

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(5)

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Signature: William R. Torti

2/11/02
Date

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FEE TRANSMITTAL

Electronic Version 1.1.0

Stylesheet Version: 1.0

Patent fees are subject to annual revisions on or about October 1st of each year.

Large Entity

TOTAL FEES AUTHORIZED: \$ 780

The commissioner is hereby authorized to charge indicated processing and/or publication fees and credit any overpayments to:

Deposit Account Number: 09-0456



Deposit Account Name: International Business Machines Corporation

Charge Any Additional Fee Required Under 37 C.F.R. Sections 1.16 and 1.17.

Charge Assignment Fees Required Under 37 C.F.R. Section 1.21 (h).

SUBMITTED BY

Authorized Name: Mark F. Chadurjian

Electronic Signature Mark: Mark F. Chadurjian / s /

Date Signed: 20020220

BASIC FILING FEE

| Fee Description | Fee Code | Fee Paid |
|--------------------|----------|----------|
| Utility Filing Fee | 101 | \$ 740 |

Subtotal For Basic Filing Fee: \$ 740

EXTRA CLAIM FEES

| | Fee Code | Fee | Extra Claims | Fee Paid |
|-----------------------|----------|-------|--------------|----------|
| Total Claims: 19 | 103 | \$ 18 | 0 | \$ 0 |
| Independent Claims: 3 | 102 | \$ 84 | 0 | \$ 0 |

Subtotal For Extra Claims Fees: \$ 0

ADDITIONAL FEES

| Fee Description | Number | Quantity | Fee Code | Amount | Fee Paid |
|---|----------|----------|----------|--------|----------|
| Recording Each Patent Assignment Per Property Fee | 00000000 | 1 | 581 | \$ 40 | \$ 40 |

Subtotal For Additional Fees: \$ 40